CLAIMS

I CLAIM:

- 1. A method of improving the solubility of perfluorinated polyethers in fluorinated solvents, comprising adding a solubilizer to the solvent, wherein the solubilizer is selected from alcohols and cyclic ethers.
- 2. The method of claim 1, wherein the weight ratio of solubilizer to fluorinated solvent is the azeotropic ratio.
- 3. The method of claim 1, wherein the solubilizer is an alcohol and is selected from lower alcohols and halogenated alcohols.
- 4. The method of claim 3, wherein the solubilizer is selected from methanol, ethanol, propanol, isopropanol, butanol, trifluoroethanol, pentafluoropropanol and heptafluorobutanol.
- 5. The method of claim 1, wherein the solubilizer is a cyclic ether selected from tetrahydrofuran, 2-methyl-tetrahydrofuran, tetrahydropyran, and dioxane.
- 6. The method of claim 1, wherein the solution is formed by first adding the solubilizer to the solvent, followed by the addition of the perfluorinated polyether.
- 7. The method of claim 1, wherein the solution is formed by first adding the perfluorinated polyether to the solvent, followed by the addition of the solubilizer.
- 8. The method of claim 1, wherein the solution is formed by simultaneously adding the solubilizer and the perfluorinated polyether to the solvent.
- 9. The method of claim 1, wherein the fluorinated solvent is selected from hydrochlorofluorocarbons, hydrofluoroethers, hydrofluorocarbons, hydrohalofluoroethers, and fluorinated amines and cyclic ethers.
- 10. A method of dissolving a perfluorinated polyether for use in hard disk drive applications, comprising:
 - (a) providing a fluorinated solvent; and
 - (b) adding a solubilizer and a perfluorinated polyether to the solvent;

wherein the solubilizer is selected from alcohols and cyclic ethers.

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- 11. The method of claim 10, wherein the weight ratio of solubilizer to fluorinated solvent is the azeotropic ratio.
- 12. The method of claim 10, wherein the solubilizer is an alcohol and is selected from lower alcohols and halogenated alcohols.
- 13. The method of claim 12, wherein the solubilizer is selected from methanol, ethanol, propanol, isopropanol, butanol, trifluoroethanol. pentafluoropropanol and heptafluorobutanol.
- 14. The method of claim 10, wherein the solubilizer is a cyclic ether selected from tetrahydrofuran, 2-methyl-tetrahydrofuran, tetrahydropyran, and dioxane.
- 15. The method of claim 10, wherein the solubilizer is first added to the solvent, followed by the addition of the perfluorinated polyether.
- 16. The method of claim 10, wherein the perfluorinated polyether is first added to the solvent, followed by the addition of the solubilizer.
- 17. The method of claim 10, wherein the solubilizer and the perfluorinated polyether are added simultaneously to the solvent.
- 18. A lubricating composition comprising a perfluorinated polyether, a fluorinated solvent and a solubilizer selected from alcohols and cyclic ethers.
- 19. The composition of claim 18, wherein the weight ratio of solubilizer to fluorinated solvent is within the range of about 2:98 to 10:80.
- 20. The composition of claim 19, wherein the weight ratio of solubilizer to fluorinated solvent is the azeotropic ratio.
- 21. The composition of claim 18, which comprises using about 0.001-10 parts by weight of perfluorinated polyether to about 90-99.999 parts by weight of the solvent and solubilizer combined.
- 22. The composition of claim 21, which comprises using about 0.001-0.1 parts by weight of perfluorinated polyether to about 99.9-99.999 parts by weight of the solvent and

- solubilizer combined.
- 23. The composition of claim 18, wherein the solubilizer is an alcohol.
- 24. The composition of claim 23, wherein the alcohol is selected from lower alcohols and halogenated alcohols.
- 25. The composition of claim 24, wherein the alcohol is a lower alcohol.
- 26. The composition of claim 25, wherein the lower alcohol is selected from methanol, ethanol, propanol, isopropanol, and butanol.
- 27. The composition of claim 24, wherein the alcohol is a halogenated alcohol.
- 28. The composition of claim 27, wherein the halogenated alcohol is selected from trifluoroethanol. pentafluoropropanol and heptafluorobutanol.
- 29. The composition of claim 18, wherein the solubilizer is a cyclic ether.
- 30. The composition of claim 29, wherein the cyclic ether is saturated.
- 31. The composition of claim 30, wherein the saturated cyclic ether is selected from tetrahydrofuran, 2-methyl-tetrahydrofuran, tetrahydropyran, and dioxane.
- 32. The composition of claim 29, wherein the cyclic ether is unsaturated.
- 33. The composition of claim 18, wherein the fluorinated solvent is selected from hydrochlorofluorocarbons, hydrofluoroethers, hydrofluorocarbons, hydrohalofluoroethers, and fluorinated amines and cyclic ethers.
- 34. A method of manufacturing a corrosion-protected magnetic storage device, comprising:
 - (a) forming a magnetic layer on a substrate;
 - (b) forming a protective overcoat layer over the magnetic layer; and
 - (c) forming a lubricant topcoat on the surface of the protective overcoat layer by directly applying to said surface the lubricating composition of claim 18.